### CASE HISTORY

Luisa site is located at Road No. 2 km. 25 km. 4 at Vega Alta Municipality. The site consists of one old house, which has been used during fifty six years as a storehouse at the backyard of Mr. Luis Colon house, owner of the facility. The property has approximately 12 acres of land.

Mr. Colón used to buy oil and related materials in auction sales from the United States Department of Defense, at Fort Buchanan, when it was operating actively. He used to buy these products in order to resell them.

On April 20, 1971, he bought a lot of oils and related products at Fort Buchanan (Reference 7). The United States Department of Defense included sixteen drums of DDT of 25 pounds each within the lot. The area where these drums are stored consisted of five square feet at the backside room of the storehouse. The drums are completely corroded and part of the content is spreaded in the floor.

During 1985, Mr. Colón reported to the Environmental Quality Board the DDT he has at his property. On February, 1986 R.C.C.A. personal performed an inspection to the area and the case was referred to Legal Division; no further action was taken on this case since then.

Actually, Mr. Colón is making arrangements with the U.S. Department of Defense (USDOD) at Roosevelt Road facility in order to dispose the DDT out of his property. Mr. Roberto Gómez, from Roosevelt Road, informed Mr. Colón that FBI personnel will performed and inspection to identify if this material belongs to the U.S.D.O.D. in such a way that during January 9, 1989 personnel from the Regional Office can pick it up to dispose it.

# POTENTIAL HAZARDOUS WASTE SITE

1. IDENT	TEICATION
OI STATE	OZ SITE MANAGEA
LPRD	987366739

SEPA ,	PRELIMINAF RT 1 - SITE INFORM	_		MENT	PRD 987366739
H. SITE NAME AND LOCATION	_ <del></del>				
OI SITE MANE A HE ASSESSMENT OF THE PERSON OF THE	<u></u>	02 STREE	T. POUTE NO., C	OR SPECIFIC LOCATION	DENTYER
Luisa Site		Pogo	! #2 km.	25 1	•
03 Q1V			05 20 COOE		GTCOUNTY OF CONG
Vega Alta		PR	00762	Vega Alta	143 0,51
DE COORDINATES LATITUDE	LONGITUDE	1	100102	1 voga zarta	
<u>18 24 55.0 66</u>	19 25.0		•		
The site is on Road #2 after side of the main road.	the light of S	San Juai	n Cement.	. The entra	nce is at the left
III. RESPONSIBLE PARTIES					
Mr. Luis Colón		Road	#2 km. 2	25.4	
war		04 STATE	05 2JP COOK	O4 TELEPHONE	ASBAUM
Vega Alta		PR	00762	809 833	-4100
•	•	1	T (8000)		
Mr. Luis Colón			d #2 km.		
Vega Alta		PR	00762	18 1ELEPI-O-LE ( 809) 833	
13 TYPE OF OWNERSHIP (Chees and		_1			<u></u>
TA PRIVATE C 8. FEDERAL:	:Annat comm		L D C.STA	ITE ED COUNTY	D E. MUNICIPAL
F OTHER:	losety)		_ O G. UNI	KHOWN	
14 OWNER/OPERATOR NOTIFICATION ON FILE ICHAL ME PAR			··-		
A RCRA 3001 DATE RECEIVED:	D B UNCONTRO	LLED WAST	E SITE ICE POLA	03# DATE RECEIVE	D. I C NONE
IV. CHARACTERIZATION OF POTENTIAL HAZAI	RD		_	_	
_	A EPA O B. El	PA CONTRA	ctoe f	C. STATE . C	D. OTHER CONTRACTOR
	E LOCAL HEALTH OF				
	ONTRACTOR NAME(S):				Samoyi
OZ SITE STATUS (Chee) and	03 TEMS OF OPE				
& A ACTIVE DB. INACTIVE DC. UNKNOW	N	1932	198		UNKNOWN
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KIN	OWN OR ALL EGED	#{C	<u></u>	G 1 ( LA	
DDT in very corroded drums in exposed to the environment and house.					
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT	AHO/OR POPULATION				
See attached paper	,				
V. PRIORITY ASSESSMENT					
DI PRIDATTY FOR INSPECTION (Chart one if high or measure a single A. HIGH  Interestion required primaring  (Interestion required primaring)	B C FOM		2 Description of the NO!	wan kiisu aanas Cantan AE Kiingani Canstani kai act	a Cinada garannan ghadi.
VI. INFORMATION AVAILABLE FROM		<del></del>	-1		
DICONTACT	02 OF ISpering	·			03 TELEPHONE NUMBER
Eng. Juan Merced Mateo	Environmer				809 722-007
Eileen C. Villafañe Deyack	EQB	Air Q	uality	800 722	10 7 00 1

### DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND OR POPULATION

### DDT

It is a colorless solid with a weak, chemical odor.

#### Health Hazards

Ingestion of 1.5g can cause abnormal sensation, tremor, loss of coordination, headache, fatigue, delayed vomiting. Large doses cause nausea or diarrhea, nervous symptoms, convulsions, coma, paralysis. Vital signs are essentially normal, but pulse may be irregular and abnormally slow; ventricular fibrillation and sudden death may occur at anytime during acute phase. Target organs central nervous system, kidneys, liver, skin, periferal nervous system.

### Emergency First Aid

#### Contact with:

- a. Eyes: Wash with large amounts of water, lifting the lids occasionally. Get medical attention as soon as possible.
- b. Skin: Wash with soap or mild detergent. Remove contaminated clothing. If there is skin irritation, get medical attention.
- c. Breathing: Move patient to fresh air. Perform artificial respiration if needed. Keep patient warm and at rest.

  Get medical attention as soon as possible.
- d. Swallowing: Get medical attention immediately. Give large quantities of water, and then induce vomiting (mechanically with finger).

The permissible exposure limit by O.S.H.A. is  $1 \text{ mg/m}^3$ . It is incompatible with strong oxidizers. Protective equipment is necessary; clothing, gloves, face shillds to prevent prolonged or repeated plain contact. Splash proof safety goggles required where there is danger of eye contact. Incineration is used as a disposal method.

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	$\Gamma H$

### POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

- 1		TIFICATION
	01 STATE	02 SITE NUMBER

	M	•		E INFORMATIO		OT STATE OF STATE	
II. WASTES	TATES, QUANTITIES, AN	D CHARACTER	•				
	TATES (Check all that apply)	02 WASTE QUANT	TTY AT SITE	03 WASTE CHARAC	TERISTICS (Check all that	apply)	·
XX A. SOLID	☐ E. SLURRY	must be	of waste quantities independent)	JO A. TOXIC			VOLATILE
∭ B. POWDE	ER, FINES ☐ F. LIQUID E ☐ G. GAS	TONS .	.18	30 B. CORRO	OSIVE DF. INFE	CTIOUS	SIVE
i		CUBIC YARDS .	<u>+ 16.</u>	30 D. PERSIS		ABLE . INCOM	PATIBLE
D. OTHER	(Specify)	NO. OF DRUMS .	***************************************	l		☐ M. NOT A	PPLICABLE
III. WASTE T	YPE				· · · · · · · · · · · · · · · · · · ·		
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURI	03 COMMENTS		
SLU	SLUDGE					<del></del>	
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES						
occ	OTHER ORGANIC CH	IEMICALS				-	
IOC	INORGANIC CHEMIC	ALS .					<del></del>
ACD	ACIDS				<del>}</del>		
BAS	BASES	···		<u> </u>	<del></del>	·· <u>····</u>	
MES	HEAVY METALS				<del> </del>		
IV. HAZARD	OUS SUBSTANCES (See Ap	pendix for most frequent	ly cited CAS Numbers)		<u> </u>		
01 CATEGORY	02 SUBSTANCE N		03 CAS NUMBER	04 STORAGE/DIS	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
PSD	DDT		50293	drums	CONEMICTION	25	pounds
			00233	<u> arans</u>	···	20	pourtus
					<del></del>	<del>                                     </del>	ļ
					<del></del>		
		<del></del>				<u> </u>	<u> </u>
<del> </del>			<del> </del>				
				·			-
					<del></del>		<u> </u>
			<u> </u>				•
	<del></del>		ļ				
						ļ <u>.</u>	
	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			
		<del>"</del>		·			
V. FEEDSTO	CKS (See Appendix for CAS Number	rs)					1
CATEGORY	01 FEEDSTOCK	NAME	02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS				FDS			
FDS				FDS			
FDS				FDS			
VI. SOURCES	OF INFORMATION (Cite SE	pecific references, e.g.,	state files, sample analysis, re	ports)		······	
Chemical	Safety Data Gu	ide					
	ide to Chemical						
	a Topographic Q		Мар				
rederal	Regulation 5302	. 4					j
							ļ

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## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

l.	I. IDENTIFICATION						
01	STATE	02	SITE	NUMBER			

PART 3 - DESCRIPTION OF HAZARDOUS CONDITIONS AND INCIDENTS

	AZARDOUS CONDITIONS AND INCIDENTS
II. HAZARDOUS CONDITIONS AND INCIDENTS	
01 ☐ A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 ☐ OBSERVED (DATE:) ☐ POTENTIAL ☐ ALLEGED 04 NARRATIVE DESCRIPTION
The pesticide is inside a storehouse	. which is completely closed. There is no
possibility of groundwater contamina	tion.
01 □ B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:)  OHEROTIAL  OHEROTIAL  ALLEGED
The pesticide is inside a storehouse contamination do not apply.	completely closed, therefore surface water
01 □ C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:)  OH NARRATIVE DESCRIPTION
	N/A
01 □ D. FIRE/EXPLOSIVE CONDITIONS 03 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:)  OBSERVED (DATE:)  OH NARRATIVE DESCRIPTION
	N/A
01 30 E. DIRECT CONTACT 2 03 POPULATION POTENTIALLY AFFECTED:	02-20 OBSERVED (DATE:)   POTENTIAL   ALLEGED   04 NARRATIVE DESCRIPTION
The owner and his grandson have been to the site.	in direct contact with the DDT since it's arrival
01 ☐ F. CONTAMINATION OF SOIL 03 AREA POTENTIALLÝ AFFECTED:	02  OBSERVED (DATE: )  OH POTENTIAL  OH ALLEGED
The plaguicide is inside a closed but of soil.	ilding. There is no possibility of contamination
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02  OBSERVED (DATE:)  OH NARRATIVE DESCRIPTION
	N/A
01 Q2H. WORKER EXPOSURE/INJURY 2 03 WORKERS POTENTIALLY AFFECTED:	02  OBSERVED (DATE:)  OHOMORPHISM  OALLEGED
·	in direct contact with the DDT since it's
01 ☐ I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) POTENTIAL ALLEGED 04 NARRATIVE DESCRIPTION
	N/A
	·

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## POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

	IDENT			
01	STATE	02	SITE	NUMBER

PART 3 - DESCRIPTION	ON OF HAZARDOUS CONDITIONS AND INCIDENTS	; L	
II. HAZARDOUS CONDITIONS AND INCIDENTS (C.	ontinued)		
01 ☐ J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 - OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
There is no damage to flora o	observed during the offsite inspect	tion.	
01 □ K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)  There is no damage to fauna of	o2 $\square$ OBSERVED (DATE:)  Observed during the offsite inspect		□ ALLEGED
01 ☐ L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 G OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
There is no contamination of	food chain observed during the ins	spection.	
01 M. UNSTABLE CONTAINMENT OF WASTES (Spills/Runoff/Standing liquids, Leaking drums)	02 G OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
The drums were completely con of it is spill directly over	${r}$ 04 NARRATIVE DESCRIPTION $r$ roded and the DDT is exposed to the the floor.	ne environme	ent and part
01 ☐ N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02	☐ POTENTIAL	☐ ALLEGED
	N/A		
01 O. CONTAMINATION OF SEWERS, STORM DRAIN 04 NARRATIVE DESCRIPTION	NS, WWTPs 02 $\square$ OBSERVED (DATE:) $N/A$	☐ POTENTIAL	□ ALLEGED
01  P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	☐ ALLEGED
	N/A		
OS DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL The other drums inside the fo them have acetone and methano	acility are corroded and can be bro	oken easily.	Some of
III. TOTAL POPULATION POTENTIALLY AFFECTE	D: 2		
IV. COMMENTS			
	potentially affected is the owner	and his gro	ındson
V. SOURCES OF INFORMATION (Cite specific references, e	e.g., state files, sample analysis, reports)		
Offsite Inspection Report Invoice of oils and related p	products from the US Departmento o	f Defense	

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	L

### POTENTIAL HAZARDOUS WASTE SITE

I. <u>I</u>	DENT	IFICATION
)1 (	STATE	02 SITE NUMBER

<b>SEPA</b>		SITE INS		'ION TIVE INFORMATI	ON	OF STATE OF SITE NOWINGEN
II. PERMIT INFORMATION	PART 4-PERIM	I AND DE	SCRIP	TIVE INFORMATI		
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE I	SSUED	04 EXPIRATION DATE	05 COMMENTS	
(Check all that apply)						
☐ A. NPDES		_		<u> </u>		
□ B. UIC						•
C. AIR						
D. RCRA	•					
☐ E. RCRA INTERIM STATUS	<del>_</del>					
F. SPCC PLAN	<del></del>					
☐ G. STATE (Specify)  ☐ H. LOCAL (Specify)				<u> </u>		
☐ I. OTHER (Specify)			····			
		-				-
☐ J. NONE		!		1		
	02 AMOUNT 03 UNIT 0	OF MEASURE	04 TF	REATMENT (Check all that a	oply)	05 OTHER
☐ A. SURFACE IMPOUNDMENT	- 1			•	.,	
☐ B. PILES			l	INCENERATION UNDERGROUND INJE	ECTION	DT A. BUILDINGS ON SITE
🕮 C. DRUMS, ABOVE GROUND	<u> </u>	lb.	l	CHEMICAL/PHYSICA		
D. TANK, ABOVE GROUND			!	BIOLOGICAL		
☐ E. TANK, BELOW GROUND ☐ F. LANDFILL				WASTE OIL PROCES		06 AREA OF SITE
G. LANDFARM			l	SOLVENT RECOVER' OTHER RECYCLING/		
☐ H. OPEN DUMP				OTHER none		
☐ I. OTHER				(Špe	cify)	
The DDT is stored in co	,,, <b>o</b> uou u 2. 0					
IV. CONTAINMENT						
01 CONTAINMENT OF WASTES (Check one)				<del></del>		
□ A. ADEQUATE, SECURE	☐ B. MODERATE	☐ C. II	NADEQ	UATE, POOR	🗯 D. INSECU	JRE, UNSOUND, DANGEROUS
02 DESCRIPTION OF DRUMS, DIKING, LINERS, E	BARRIERS, ETC.	<del>i</del>				
The drums are corroded	d and broken.	Thev o	ire	inside a sto	rehouse.	
•	•					
V. ACCESSIBILITY						
01 WASTE EASILY ACCESSIBLE: 27 YES	S 🗆 NO					
The waste is easily acc	cessible once v	ou aet	inte	n the site	They are	e stored in a ware
house at the backyard	of the house.	, ca got	.,		inoy ur	s stored the d ware
VI. SOURCES OF INFORMATION (Cite Sp.		mple analysis, rep	orts)	<del></del>		
	······································					
Offsite Inspection Repo	ort					
	•					

POTENTIAL HAZAI SITE INSPEC PART 5 - WATER, DEMOGRAPH						ITE		ITIFICATION	
					MENTAL DATA	0.3121	E 02 SITE NO	**************************************	
II. DRINKING WATE	RSUPPLY					THE DATA	<del></del>		
01 TYPE OF DRINKING S (Check as applicable)	UPPLY		02 STATUS	···	<u> </u>		03 D	ISTANCE TO SI	TE
,	SURFACE	WELL	ENDANGERI	ED AFFI	ECTED	MONITORED			
COMMUNITY	<b>A</b> . 🗆	В. 🗆	A. 🗆	В	. 🗆	<b>c</b> . □ •	A		_(mi)
NON-COMMUNITY	<b>C</b> . □	D.30	D. 🗆	E	. 🗆	F. 🗆	В	5	_(mi)
III. GROUNDWATER	1								
01 GROUNDWATER USE	IN VICINITY (Check of	one)							
ρ A. ONLY SOURCE	FOR DRINKING	B. DRINKING (Other sources availat COMMERCIAL, IN (No other water source	DUSTRIAL, IRRIGATIO	(1	COMMERCIAL imited other sou	., INDUSTRIAL, IRRIGAT Irces available)	ION 🗆 :	D. NOT USED, (	INUSEABLE
02 POPULATION SERVE	D BY GROUND WAT	ER 35,650		03 DISTANO	CE TO NEARE	ST DRINKING WATER W	/ELL	5	_(mi)
04 DEPTH TO GROUNDW	ATER	05 DIRECTION OF GRO	OUNDWATER FLOW	06 DEPTH T		07 POTENTIAL YIEL	0	8 SOLE SOUR	CE AQUIFER
6	(ft)	Nort	th		00(ft)	50,400	(gpd)	JC YES	□ NO
09 DESCRIPTION OF WEI	LLS (Including useage,	I depth, and location relative to p	population and buildings)	<u> </u>	· · · · · · · · · · · · · · · · · · ·		(3) -/ 1		<del></del>
The only	drinking	water source	e at Vega A	lta Mur	nicipal	ity is grou	ındwa t	er.	
10 RECHARGE AREA				11 DISCHAF	1				
☐ YES COMMEN	TS			☐ YES 57 NO	COMMEN	TS			
IV. SURFACE WATE	R				<u> </u>				
01 SURFACE WATER USE	(Check one)								···
☐ A. RESERVOIR, F DRINKING WA			N, ECONOMICALLY TRESOURCES	□ <b>c</b> . (	COMMERCI	AL, INDUSTRIAL	<b>30</b> D. I	NOT CURREN	ITLY USED
02 AFFECTED/POTENTIA	LLY AFFECTED BO	DIES OF WATER				······································			
NAME:						AFFECTED	C	ISTANCE TO	SITE
37/4									

(mi) (mi) V. DEMOGRAPHIC AND PROPERTY INFORMATION 01 TOTAL POPULATION WITHIN 02 DISTANCE TO NEAREST POPULATION ONE (1) MILE OF SITE

A. 10, 202

NO. OF PERSONS TWO (2) MILES OF SITE B.  $\frac{7,348}{\text{NO. OF PERSONS}}$ THREE (3) MILES OF SITE C. 12,777 .09 03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 04 DISTANCE TO NEAREST OFF-SITE BUILDING 5,124 .15 \_(mi) 05 POPULATION WITHIN VICINITY OF SITE (Provide narrative description of nature of population within vicinity of site, e.g., rural, village, densely populated urban area)

There is a comunity .09 miles from the site.

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# POTENTIAL HAZARDOUS WASTE SITE

I. IDENTIFICATION				
01	STATE	02 SITE NUMBER		

<b>SFPA</b>	SITE INSPECTION REPORT		01 STATE 02 SITE NUMBER	
~/ L. / \	PART 5 - WATER, DEM	OGRAPHIC, AND	ENVIRONMENTAL DATA	\ L
VI. ENVIRONMENTAL INFORMA				
01 PERMEABILITY OF UNSATURATED Z				
⊔ A. 10 <sup>-6</sup> – 10 <sup>-</sup>	-8 cm/sec ☐ B. 10-4 - 10-6 c	m/sec 02°C.10-4-	- 10 <sup>-3</sup> cm/sec ☐ D. GREATE	ER THAN 10 <sup>-3</sup> cm/sec
02 PERMEABILITY OF BEDROCK (Check	one)			
	10 - cm/sec) (10 - 10 - cm/	sec) (	RELATIVELY PERMEABLE 110 <sup>-2</sup> - 10 <sup>-4</sup> cm/sec)	D. VERY PERMEABLE (Greater than 10 <sup>-2</sup> cm/sec)
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL	ZONE	05 SOIL pH	
(ft)		(ft)	s <u>trongly aci</u> d*	
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE SITE S	SLOPE   DIRECTION OF SITE	SLOPE   TERRAIN AVERAGE SLOPE
71_16(in)	5.27	.(in)	%	0
09 FLOOD POTENTIAL	10			
it is not in a floo SITE IS INYEAR FLO	OODPLAIN		), COASTAL HIGH HAZARD ARE	
11 DISTANCE TO WETLANDS (5 acre minim.  ESTUARINE		12 DISTAN	CE TO CRITICAL HABITAT (of endange	_
LOTOANINE	OTHER	i		3(mi)
A3(mi)	B (mi)	EN	DANGERED SPECIES:	
13 LAND USE IN VICINITY				
DISTANCE TO:				
COMMERCIAL/INDUSTRI		AS; NATIONAL/STATE OR WILDLIFE RESERVI		RICULTURAL LANDS AND AG LAND
A. <u>1 . 5</u> (mi)	В	. 09 (mi)	c	(mi) D1 (mi)
14 DESCRIPTION OF SITE IN RELATION T	O SURROUNDING TOPOGRAPHY	<del></del>		· · · · · · · · · · · · · · · · · · ·
•				
The site is in a vo			an intermitent c	reek 300 meters from
the buttaing where	the DD1 to stored.	•		
				•
			-	
			•	
•				
II. SOURCES OF INFORMATION	(Cite acception and		<del></del>	
oil Survey	Tone specific references, e.g., state files, sar		ainitation Data	
Censo 1980			cipitation Data	ry to December 1987
'ega Alta Geologic Q	uadrangle Map		in Islanas Janaan i of Water-Quality	
'ega Alta Topographi	c Quadrangle Map	Data for th	ne North Coast	,
		Limestone A	Aquifers, PR 1951	to 1987
/ega Alta Flooding M Climatological Data PAFORM 2070-13(7-81)	Aunuai Summary 198		- ,	

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# POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

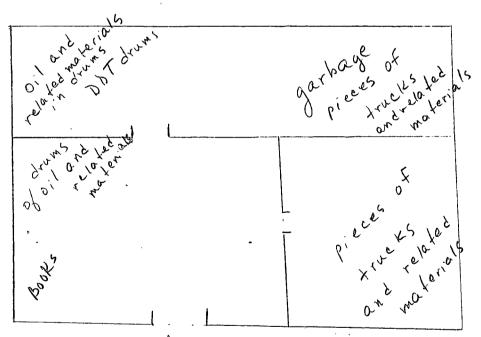
I. IDENTIFICATION					
01 STATE 02 SITE NUMBER					

	ı	P	ART 6 - SAMPLE AND FIEL	D INFORMATION	
II. SAMPLES TAKE	N	,			
SAMPLE TYPE		01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO		03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER					•
SURFACE WATER					
WASTE					
AIR					
RUNOFF			·		
SPILL					
SOIL					
VEGETATION					
OTHER	<u> </u>				
III. FIELD MEASUR	EMENTS TA	KEN			
01 TYPE		02 COMMENTS			
	· · · · · · · · · · · · · · · · · · ·				
IV. PHOTOGRAPH				· · · · · · · · · · · · · · · · · · ·	
01 TYPE GROUN	D AERIAL  04 LOCATION		-02 IN CUSTODY OF	(Name of organization or individual)	
☐ YES		OF MIAPS			·
V. OTHER FIELD D	ATA COLLE	CTED (Provide narrative de	scription)		
VI. SOURCES OF INFORMATION (Cite specific references, e.g., state files, sample analysis, reports)					
			•		
1					

Date: <i>Des</i>	cember 7, 1988	
Site Name:	Luisa Site	TDD:
Site Address	Street, Box, etc.	
	<u>Vega Alta</u> Town	
	Vega Alta County	
	Puerto Rico State	
EQB Personn	nel: Name	Disciplin <b>e</b>
	Eileen <u>C. Villafañe Deyack</u>	Environmental Specialist
Weather Con	ditions (clear, cloudy, rain, snow, etc	c.):
Cloudy and	l raining.	
		-
Estimated wi	nd direction and wind speed:	
Estimated ter	inperature: 79° C	<i>,</i>
Signature: <u>E</u> r	ileen C. Villafañe Deyack	Date: December 9, 1988

Date: December 7, 1988	
Site Name: Luisa Site	TDD:
Sita Skataha	

Indicaté relative langmark locations (streets, buildings, streams, etc.). Provide locations from which photos are taken.



entrance to the store hous

Pieces of pieces of trucks and terrals
trucks and terrals
related materials

Site Name: LUISA SITE TDD:
Notes (Periodically indicate time of entires in military time):
An off site inspection was perform on Mr. Luis Colón farm at Vega
Alta Municipality from 10:00 to 12:00 pm. Mr. Luis Colón, owner of the
farm and Mr. Roberto Sánchez, his grandson, were with Superfund personnel
during the inspection.
Mr. Colón used to buy oil and related materials in auction sales
from the US Department of Defense (USDOD) since 1932. He buys these
products in order to resell them.
On April 20, 1971, he bought a lot of oils and related products at
Fort Buchanan when this fort was operting actively (Reference 7). The US
DOD included sixteen drums of DDT of 25 pounds each within the lot. The
area where these drums are stored consisted of five square feet at the
backside room of the storehouse. The drums are completely corroded and
part of the content is spreaded in the floor.
During 1985, Mr. Colón reported to the Environmental Quality Board
the DDT he has at his property. On February, 1986, RCRA personnel
performed an inspection to the area and the case was referred to Legal
Division; no further action was taken on this case since then.
Signature: <u>Eileen C. Villafañe</u> Date: <u>December 7, 1988</u>
Counter Signature: Date:

Date: <u>December 7, 1988</u>	
Site Name: Luisa Site	TDD:
Notes (Periodically indicate time of	entires in military time):
Mr. Colón informed that he has	<u>been making arrangements with the</u>
Roosevelt Road facility at Ceiba in a	order to identify all the drums with
DDT-and-dispose-them-out_of_his_prope	erty. He is looking for the invoice
of the auction sale where he bought	the lot of ail where the DDT was
included in such a way that the De	<u>epartment of Defense can take the</u>
responsibility of this material and di	spose of the it properly.
•	

Date:	<u>December</u>	7.	1988	
Site	Name: Luiso	i S	ite	

### PHOTO LOG

Camara:_	Minolta XG-1
Film:	Kodak 24 exp.

FRAME/PHOTO NUMBER

DATE

PHOTOGRAPHER

TIME

- 1. Entry to the main house 12/7/88
- Eileen C. Villafañe Deyack
- 10:00am-12:00pm

- 2. Road from the main house to the storehouse
- 3. Road in front of the storehouse
- 4. Front of the storehouse
- 5. An Intermitent Creek 300 meters from the store-house and a community 500 meters in front of the storehouse
- 6. The DDT in corroded drums and part of it spreaded in the floor of the storehouse
- 7. Drums with oil and related materials at the backside of the DDT corroded drums

Date: <u>December 7, 1988</u>	_		
Site Name: <u>Luisa Site</u>	<u> </u>		••
,	* * *		
	PHOTO LO	<u>G</u>	
Camara: <u>Minolta XG-1</u>	_		
Film: Kodak 24 exp.	<del></del>		
FRAME/PHOTO NUMBER	DATE	PHOTOGRAPHER	TIME
8-9. DDT corroded drums			

- 10. Label of the Defense supply agency
- 11. The front side area where the DDT is stored



Photo 1: Entry to the main house

Photo 2: Road From the main house to the Storehouse





Photo 3: Road in Front of the storehouse



Photo 4: Front of the storehouse



Photo 5

An intermitent creek 300 meters

From the storehouse and a community 500 meters in Front of the
Storehouse.



Photo 6

DDT in corroded drums. Part

of it is spreaded in the Floor

of the storehouse.



Photo 7

Drums with oil and
Related materials at
the backside of the
corroded drums with DDT



Photo 8 and 9 Corroded drums with DDT





Photo 10 Drum with a label of the Defense Supply Agency



Photo 11
Frontside area where
the DDT is stored

### VEGA ALTA SOIL DESCRIPTION

The area around the site is composed of blanket sand deposits as described by the Vega Alta Geologic Quadrangle Map.

Most of the valleys between limestone ridges of the Aymamón Limestone and many of the sinkholes in the Aguada Limestone are covered by a thick deposit of orange to red sandy clay and, locally, red clayey sand. Although much of the clay may be derived from the nearby limestone, the sand has been transported by wind, streams, and possibly coastal currents.

The soil survey described the area as Espinosa Sandy Clay loam with 5 to 12 percent slopes.

This soil is deep, sloping, and well drained. It is in small valleys between limestone hills and on the coastal plains. Slopes are 400 to 800 feet long. The areas of the soil range from 20 to 60 acres.

Typically, the surface layer is dark brown, friable sandy clay loam about 10 inches thick. The subsoil is firm and multicolored and extends to a depth of 60 inches or more. It is sandy clay to a depth of 16 inches and clay at a depth of more than 16 inches.

Included with this soil in mapping are small areas of Almirante soils and small areas of exposed bedrock. Included areas make up 10 to 15 percent of the unit.

The permeability and available water capacity of this Espinosa soil are moderate. Runoff and natural fertility are medium. Reaction throughout is very strongly acid.

This soil is well suited for sugarcane, sweet potatoes, pineapples, and plantains and is used for vegetables and citrus fruits. Corps on this soil respond well to applications of lime and fertillizer, and irrigation is needed in some places.

This soil is well suited for such pasture plants as pangolagrass, stargrass, and merkergrass. Using proper stocking rates and deferred

grazing, controlling weeds, and liming and fertilizing are the main pasture management concerns.

Slope is the main limitation of the soil for nonfarm development.

	PRO Ground	l Water	Route	e Wor	k S	heet			
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Net Precipi Permeabilit	y of the	0 1 0 1	2 <u>3</u> 2 3			1 1	<b>0</b> * 3 <b>2</b> *	3	
Unsaturated Physical St		0 1	2 3			1	2*	3	
	Total Route	Charac	teris	tics	sco	ore	<b>4</b> 7	15	
[3] Containment		0 1	2 3			1	2*	3	3.3
[4] Waste Chara Toxicicty/ Hazardous Quantity	Persistence	0 3 6 0 1 2	9 12 3 4	15 1 5 6 7	L8 7 8	1 1	18* 1*	18 8	3.4
	Total Waste	Charac	teris	tics	sco	ore	19	26	
[5] Targets Ground Wat Distance t Well/Popu Served	o Nearest	0 1 0 4 12 16 24 30	6 18	20	10 40	3	9* 35*	9 40	3.5
	Total Targe	ts scor	е				44	49	
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A '\*' represents a data gap between the Pre and the Pro

Sm = 11.8

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	Total Route	Cha	aract	eri	stic	s sc	ore	11	15	
[3] Containment		0	1	2	3		1	3*	3	4.3
[4] Waste Chara Toxicicty/ Hazardous Quantity	cteristics Persistence Waste	0	3 6 1 2	9 1 3 4	2 15 5 6	18 7 8	1	18* 1*	18 8	4.4
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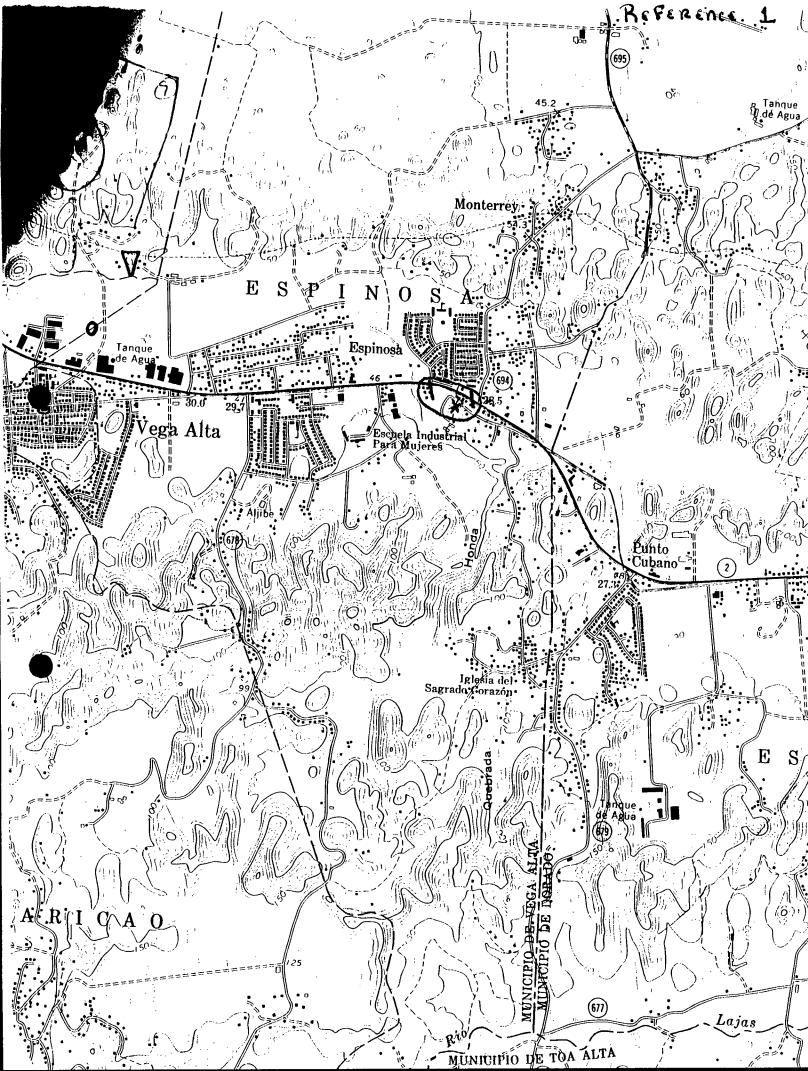
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Environmen Land Use	it	0 1 2 3	1		3	
Γ	Total Target	s Score			39	
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[5] Divide line	e [4] by 35,1	00 and multiply	by 100	S a =		0

A '\*' represents a data gap

#### REFERENCES

- 1. Vega Alta Topographic Quadrangle Map
- 2. Vega Alta Geologic quadrangle Map
- 3. Zola Joseph, Eileen. Chemical Safety Data Guide. Bureau of National Affairs Inc. Washington D.C. 1985.
- 4. Off Site inspection Report performed on December 7, 1988
- 5. NIOSH pocket guide to Chemical Hazards U.S. Department of Health and Human Services 1985
- 6. Federal Regulation 302.4
- 7. Invoice of oils and related products from the U.S. Department of Defense at an Auction Sale
- 8. Compilation of Water Quality Data for the North Coast Limestone Aquifers, Puerto Rico, 1951 to 1987. U.S.G.S. Open File Data Report 87-533
- 9. Flood Map Vega Alta Quadrangle
- 10. 1980 Census of Population and Housing
- 11. Climatological Data Annual Summary Puerto Rico and Virgin Islands 1987 Vo. 33 No. 13 NOAA
- 12. Hourly Precipitation Data Puerto Rico and Virgin Islands January to December 1987
- 13. Soil Survey of Arecibo Area, Northern Puerto Rico U.S. Department of Agriculture 1982
- 14. Pro-Score Hazardous Ranking System Manual
- 15. Hazardous Ranking System Manual
- 16. Public Water System Major Sources: Groundwater System Supply -Surfacewater System Supply
- 17. Puerto Rico Aqueduct and Sewer Authority Intakes Systems Map for Vega Alta Quadrangle.
- 18. Water Resources of the lower Río Grande of Manatí Valey, Puerto Rico U.S.G.S. Water Resources Investigations Report 83-4199



## DEPARTMENT OF THE INTERIOR UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH
THE COMMONWEALTH OF PUERTO RICO
ECONOMIC DEVELOPMENT ADMINISTRATION
INDUSTRIAL RESEARCH DEPARTMENT

GEOLOGIC

QUADRANGLE MAPS

OF THE

UNITED STATES

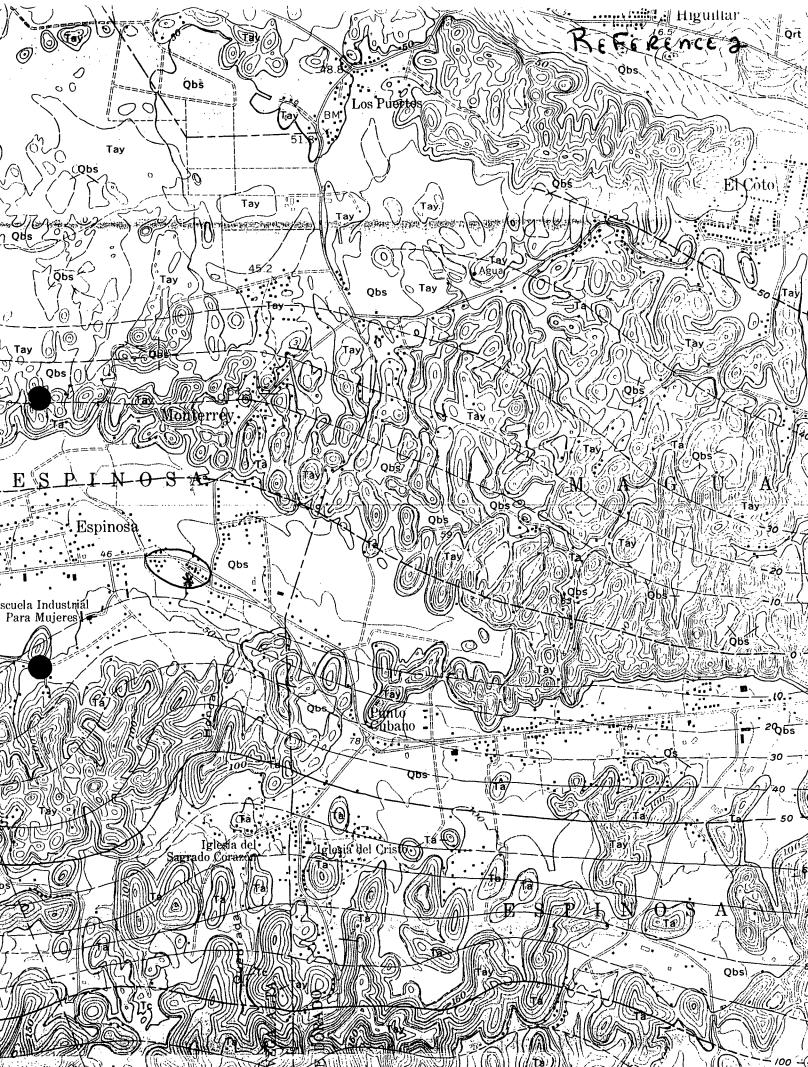
GEOLOGY OF THE

VEGA ALTA QUADRANGLE PUERTO RICO

By Watson H. Monroë

PUERTO RICO

QUADRANGLE LOCATION



## U. S. NAVAL STATION SAN JUAN, P. R.

20 April 1971

SUCCESSFUL BIDDERS INVITATION NO. 62224-1025 OPENED ON 20 APRIL 1971

NAME AND ADDRESS	ITEM	DESCRIPTION	QTY		UNIT PRICE
Roberto Torres	2	Aircraft, Spare Parts	7	lot	131,66
Box 841	19	Mimeographing Equipment		lot	· · · · · · · · · · · · · · · · · · ·
Catano, P. R. 00632	30	Electric Fans		lot	
CONTRACT 62224-1025-1	40		. 1		_
	50 50	Display Counter & Shelves		ea lot	
		Air Conditioning Unit		Eg.	-
Luis B. Colon	10	Battery Charger	1	ea	103.67
Box 307	28	Saw, Table, DeWalt		ea	42.66
Vega Alta, P. R. 00762	69	Truck, Cargo 2 1/2 T M35		ea	325.67
CONTRACT 62224-1025-3		Studebaker '52 SN 18652 USA REG 41146015			327.01
	75	Compressor Air Rotary Ingersoll Rand 25 CFM 100 PSI USN 21-003185	1	ea.	366.67
	77	· · · · · · · · · · · · · · · · · · ·	1	ea	483.67
	<b>. 7</b> 9	Trailer Cargo 1 1/2 T Cap 2-Wheel SN 01375214	1	ea	239.69
,	30	Trailer Cargo 1-1/2 T Cap 2 Wheel SN 01220723	1	ea	248.10
	81		1	ea	256.66
•	83	Paints, Sealers & Adhesives	1 :	lot	267.67
Francisco Jimenez	3	Teletypewriter, Tape	1 :	lot	50.50
La Rabida 208	24	Cardboard Boxes		ļot	, , .
Hato Rey, P. R. 00918 CONTRACT 62224-1025-4	59	Bed Springs		lot	
	*	•			
Antonio Bonilla Box 986	14	Sound Recording & Reproducing Equipment	1 :	lot	21.50
Caparra Heights, P. R. 00920	17	Trailer, Engine Lift	1	en.	51.50
CONTRACT 62224-1025-5		Automotive Spare Parts		lot	178.50
	66	Truck Cargo 2 1/2 T M35 REO '52 SN 112824 USA REG 41204834	1		606.50
	67	Truck Cargo 2 1/2 T M35 STUDEBAKER '52 SN 14693 USA REG 41119278	1	ea	286.50
	68	Truck Cargo 2 1/2 T M35 STUDEBAKER '52 SN 18691 USA REG 41146010	1 (	ea	301.50

NAME AND ADDRESS	1TEM	DESCRIPTION	QTY.	UNIT	PRICE
Eduardo A. Bosch L-8 Everglades, Park Gardens Rio Piedras, P. R. 00926 CONTRACT NO. 62224-1013-10	23 52	Engine Assy., Gas Eagine Assy.	1	ea. 11	41.00 42.51
Alfredo Luna Calle Pacheco 196 Hato Rey, P. R. 00917 CONTRACT NO. 62224-1013-13	55 88	Clothes, Hanger Truck, Stake 94-54047	1	lot ea	13.13 238.88
Domingo A. Vallejo Box 1307 Ponce, P. R. 00731 CONTRACT NO. 62224-1013-15	19 95	Motor, Electric Trailer Cargo SN01309698	3 1	ea "	166.00 157.00
Benjamin Alicea Roldan Bo. Celada, Buzon 104 Gurabo, P. R. 00658 CONTRACT NO. 62224-1013-23	46	Cables, Elect.	1	lot	50.00
Riozona Parts Box 446 Catano, P. R. 00630 CONTRACT NO. 62224-1013-24	5	Cabinets: Filing (Kardex)	1	lot	5.00
Juan Jose Gerardino Jr Urb Manuel A. Perez, Edif E-22 Apt. 180, Rio Piedras, P. R. 009 CONTRACT NO: 62224-1013-27	17 923	Electro Surgical Apparatus, Mobile	1	ea	39.51
Tuen Vergara Gomez Campamento Gurabo Box 739 Gurabo, P.R. 00658 CONTRACT NO. 62224-1013-33	9 <b>3</b>	Truck, Ambulance 3/4 Ton Dodge SN 80024142 USA 754561	. 1	ea	110.99
Luis B. Colon  Box 307  Vega Alta, P. R. 00762  CONTRACT NO. 62224-1013-36	82 85	Engine, Gas 6 Cyl Heavy Engine Assy. Gas 6 Cyl Cylinder Assembly Engine Assy. Gasoline Trailer, Cargo 1-1/2 T Truck, Ambulance Dodge 53 SN80053102 USA53K23168 Trailer, Cargo SN01341492 Trailer, Cargo SN01340638 Trailer, Cargo SN01220729 Trailer, Cargo SN01244580 Trailer, Cargo SN01244580 Trailer, Cargo SN K46190 Oil Lubricant & Waxes Paint, Thinner & Related	1 1 1	ea " " " " " " " " " " " " " " " " " " "	31.00 36.67 52.10 42.16 177.68 136.77 166.67 190.67 193.10 195.67 236.67 69.10

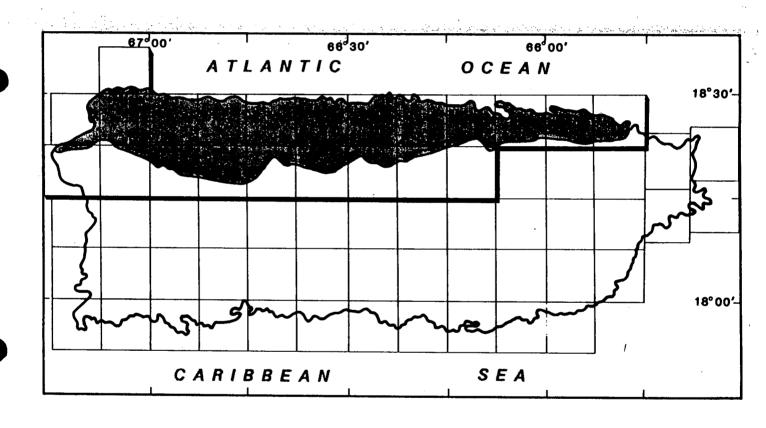
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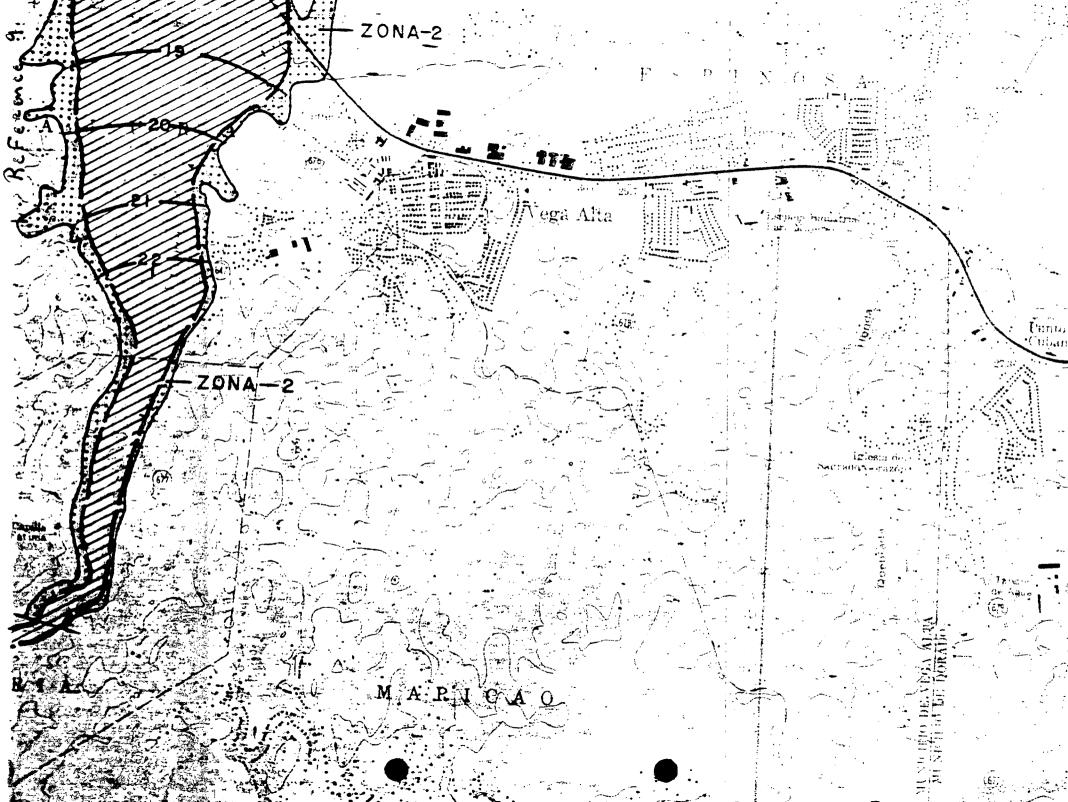
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# COMPILATION OF WATER-QUALITY DATA FOR THE NORTH COAST LIMESTONE AQUIFERS, PUERTO RICO, 1951 TO 1987



U.S. GEOLOGICAL SURVEY
OPEN-FILE DATA REPORT 87-533





NOT TO BE SOLD REFERENCE 10 PRELIMINARY REPORTS

## Census of **Population and Housing**

PHC80-P-53

#### **PUERTO RICO**

### **Preliminary Population and Housing Unit Counts**

This report is based on preliminary counts of population and housing units as compiled in the 1980 census district offices. The series consists of 56 reports-number 1 for the United States; numbers 2 through 52 for the States and the District of Columbia in alphabetical order rather than in order of publication; and numbers 53 through 56 for Puerto Rico, Guam, Virgin Islands, and American Samoa. Preliminary counts for the Northern Mariana Islands and the remainder of the Trust Territory of the Pacific Islands are not part of this series of reports. These counts will be made available in a separate press release issued for each area.

As of April 1, 1980, the population of Puerto Rico was 3,187,570, according to a preliminary count of the returns of the 1980 census. This figure represents an increase of 475,537, or 17.5 percent, from the 2.712,033 inhabitants enumerated in the 1970 census.

The preliminary count of housing units in Puerto Rico as of April 1, 1980, was 990,172. This figure, which includes both occupied and vacant housing units, represents an increase of 276,459, or 38.7 percent, from the 713,713 units enumerated in the 1970 census.

This report presents preliminary 1980 census population and housing unit counts for the Commonwealth, municipios, municipio subdivisions, zonas urbaitas alis standard metropolitan statistical areas (SMSA's)

The 1970 data are presented only for Puerto Rico and its municipios. The boundaries used in the 1970 census did not represent the official boundaries of some of the barrios, ciudades, and pueblos.

These preliminary figures will be superseded by the final counts to be shown in Advance Reports, series PHC80-V, which will be issued within the next term months. The final counts are subject to further proces essing and review and may differ from the preliminary figures.

An outline of the publication and computer take program for the 1980 Census of Population and Housing can be obtained free of charge from the Data U Services Division, Bureau of the Census, Washington D.C. 20233.

Symbols used in tables. A dash "-" represents zero Three dots "..." means not applicable, and "(NA)" means not available. The prefix " ' "indicates that the count has been revised since publication of 1970 census reports.

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## CLIMATOLOGICAL DATA ANNUAL SUMMARY PUERTO RICO AND VIRGIN ISLANDS 1987

VOLUME 33 NUMBER 13



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Konnell D Wadean

DIRECTOR - NATIONAL CLIMATIC DATA-CENTER - ---

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## HOURLY PRECIPITATION DATA

#### PUERTO RICO AND VIRGIN ISLANDS

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Timet D Waden

NATIONAL CLIMATIC DATA CENTER

United States Department of Agriculture, Soil Conservation Service in cooperation with College of Agricultural Sciences
University of Puerto Rico, Mayaguez Campus

soil survey of Arecibo Area Northern Puerto Rico

#### FEDERAL REPORTING DATA SYSTEM

LOCATE STATEMENT(S) USED FOR REPORT:

LOCATE (0) C100 WH NK C103 EQ G AND NK C194 EQ A AND C2 EQ PR:

THE FOLLOWING SCHEMA ITEMS WERE USED FOR SORTING:

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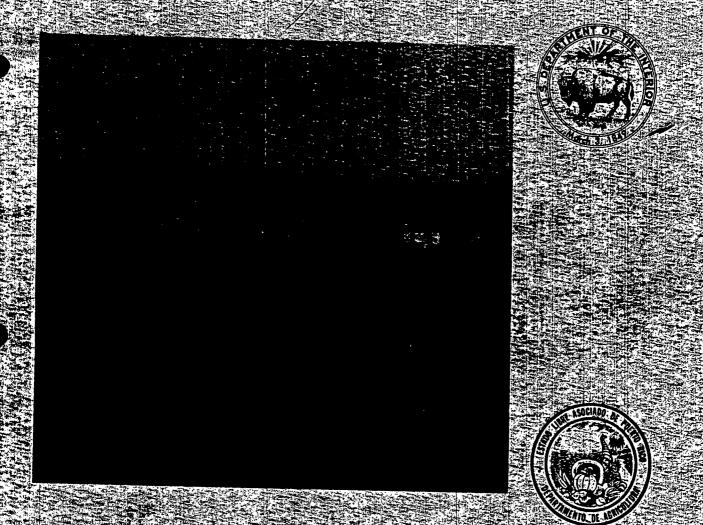
PUBLIC WATER SYSTEMS SELECTED FOR THE REPORT:

209

Référence 18

## WATER RESOURCES DE THE LOWER RIO GRANDE DE MANATI VALLEY, PUERTO RICO

U.S. GEOLOGICAL SURVEY WATER RESOURCES INVESTIGATIONS REPORT 83-4199



Propered in Cooperation with the Public Department of Agriculture

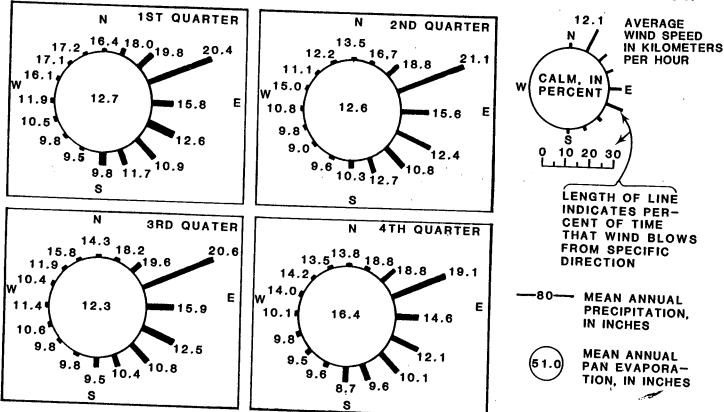


Figure 2.1-1 Average wind roses, by quarter, at Isla Verde International Airport (Mean for period 1955-1974)

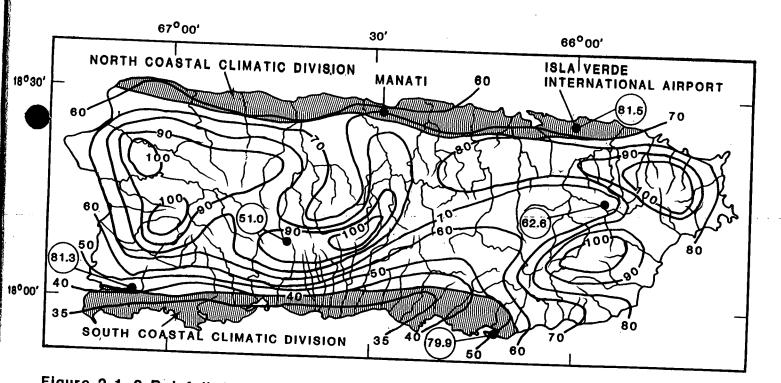


Figure 2.1-2 Rainfall distribution and pan evaporation throughout Puerto Rico (National Weather Service Data).

2.0 CLIMATE
2.1 General Description